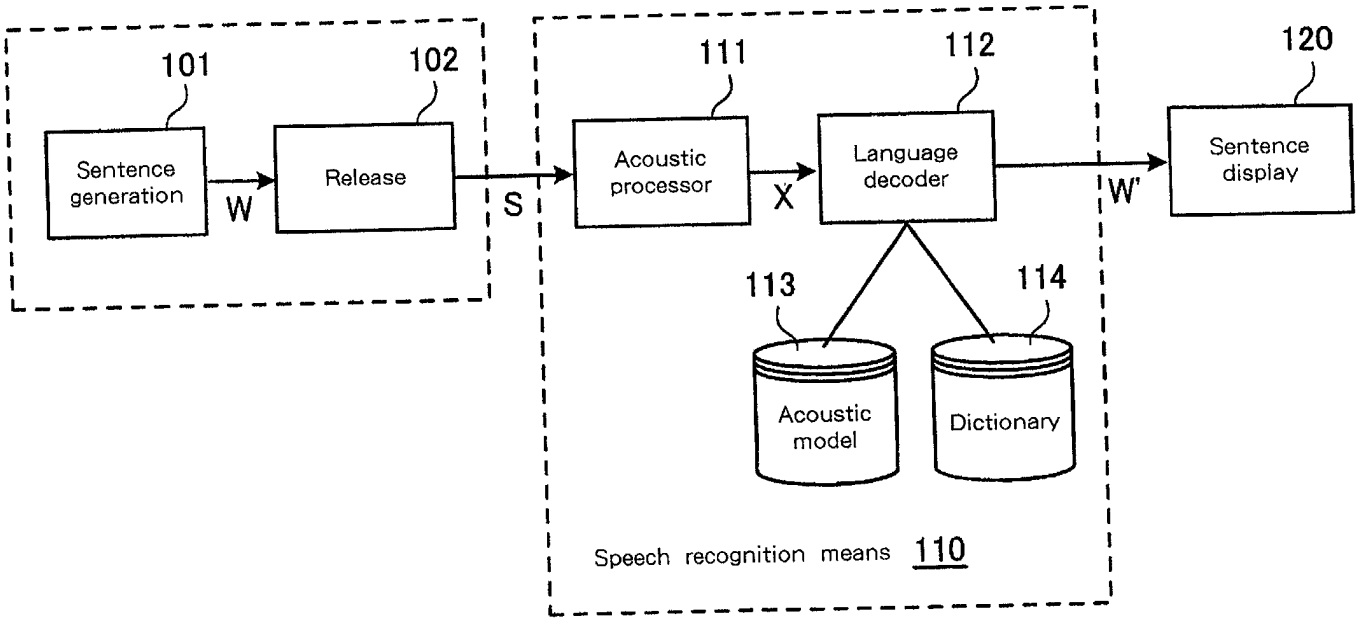

101
102
111
112
120
Sentence generation
W
Release
S
Acoustic processor
X
Language decoder
W'
Sentence display
113
114
Acoustic model
Dictionary
Speech recognition means 110

Fig. 1

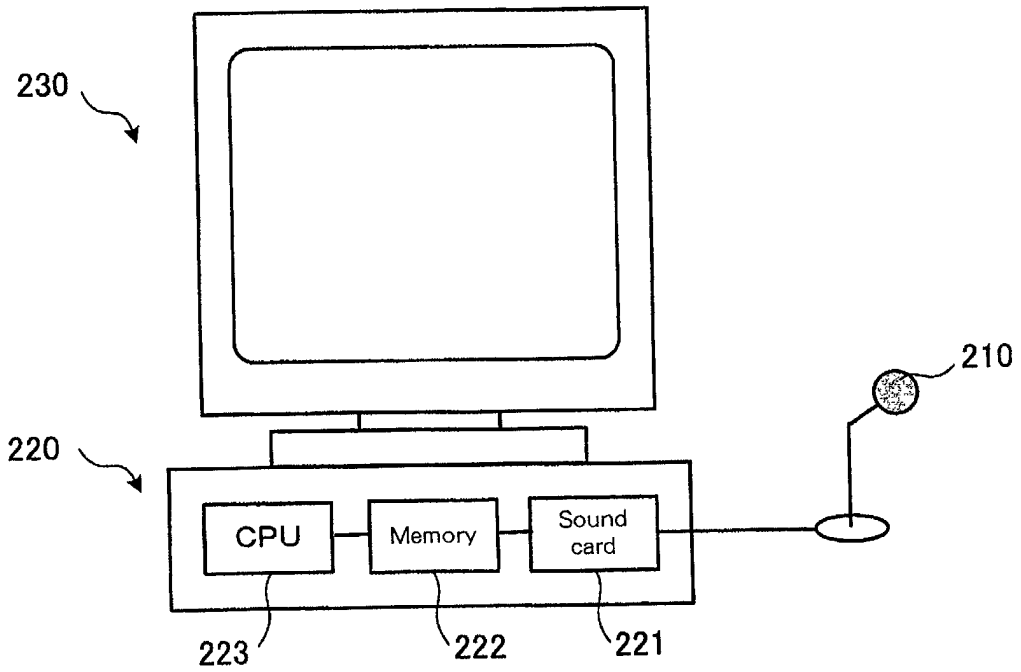


Fig. 2

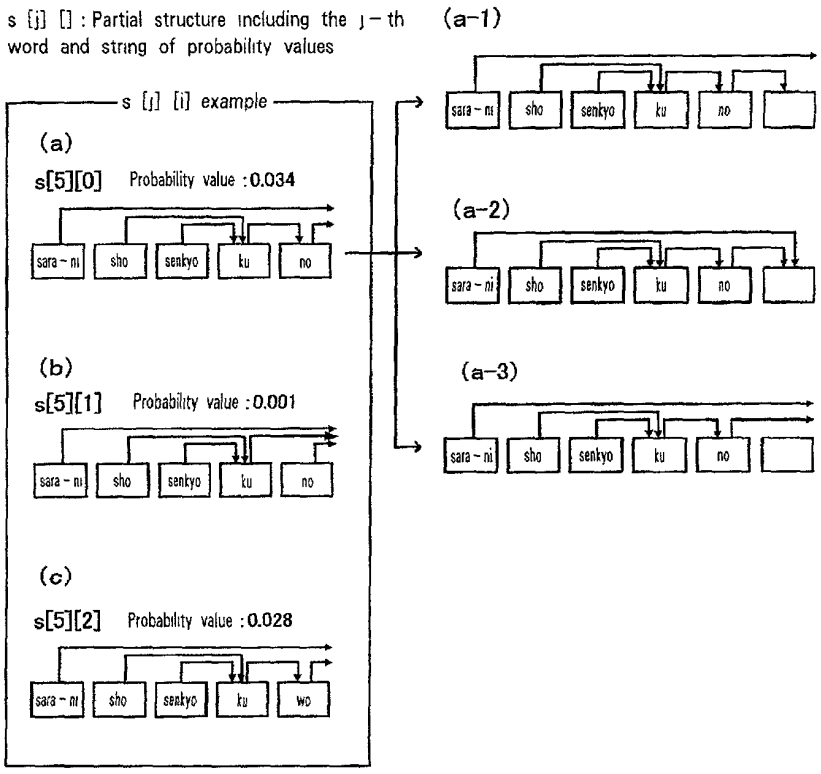
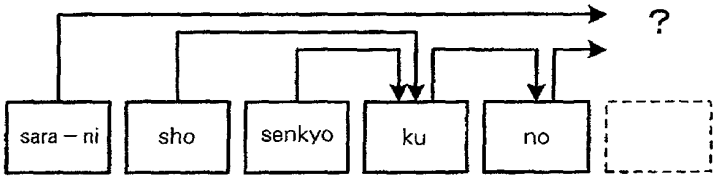

s [j] [] : Partial structure including the j – th word and string of probability values
s [j] [i] example
(a)
s[5][0] Probability value : 0.034
sara – ni
sho
senkyo
ku
no
(b)
s[5][1] Probability value : 0.001
(c)
s[5][2] Probability value : 0.028
wo
(a-1)
(a-2)
(a-3)

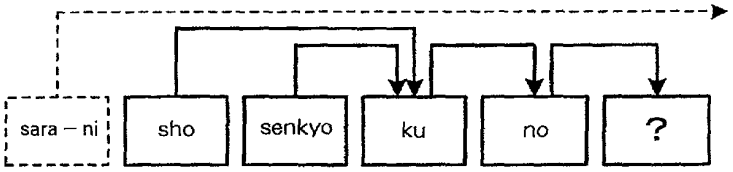
Fig. 3

2000-0133-JP1-9/9/2004

(a)



(b) Prediction that partial analysis tree will modify the next word



(c) Prediction of the next word using partial analysis tree

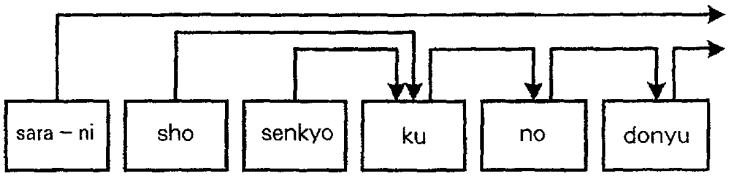


Fig. 4

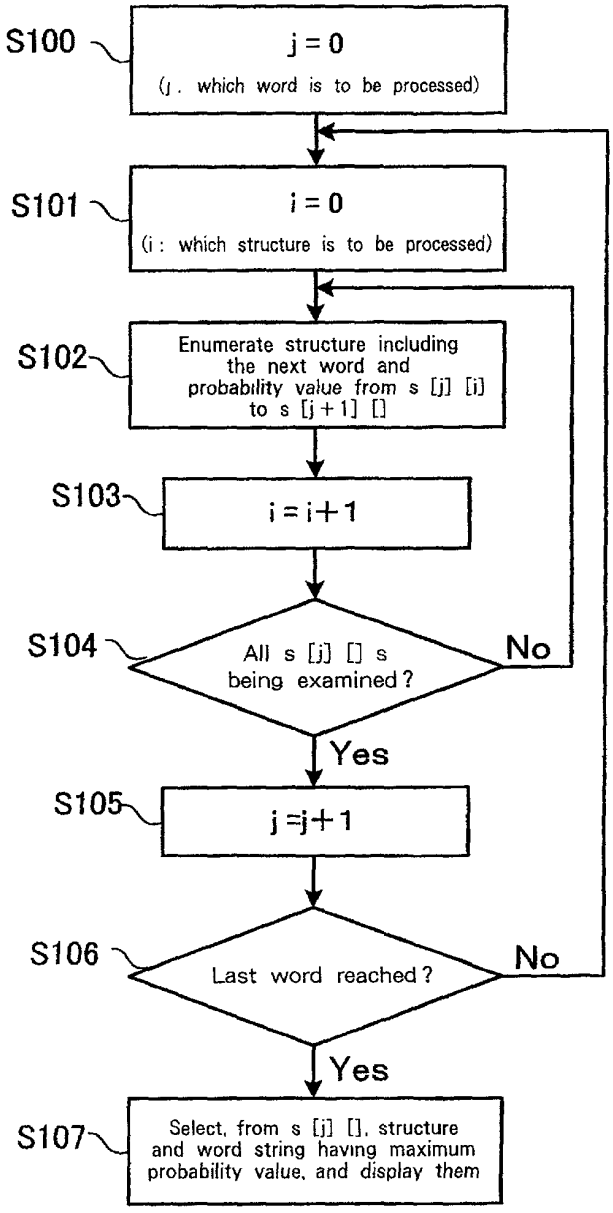
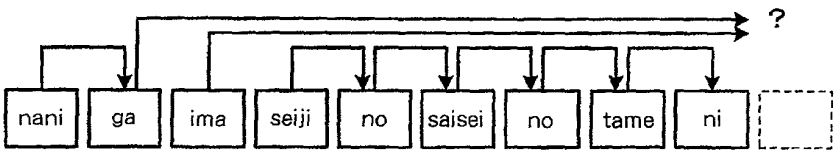
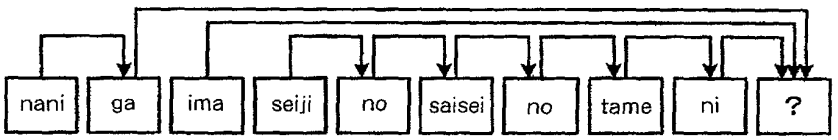

S100
j = 0
(j . which word is to be processed)
S101
i = 0
(i : which structure is to be processed)
S102
Enumerate structure including the next word and probability value from s [j] [i] to s [j + 1] []
S103
i = i + 1
S104
All s [j] [] s being examined ?
No
Yes
S105
j = j + 1
S106
Last word reached ?
No
Yes
S107
Select, from s [j] [], structure and word string having maximum probability value, and display them

Fig. 5

(a)



(b) Prediction that a partial analysis tree will modify the next word



(c) Prediction of the next word following the partial analysis tree

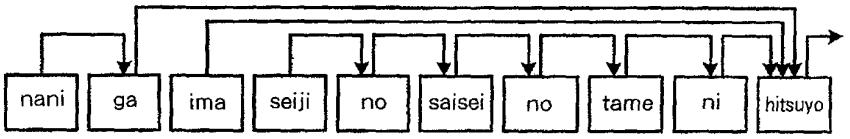


Fig. 6

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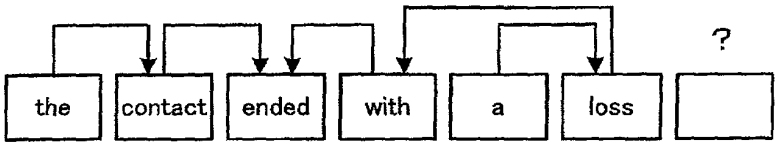
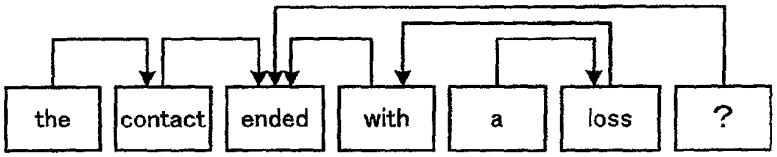
(a)



(b) Prediction that a partial analysis tree will modify the next word



(c) Prediction of the next word following the partial analysis tree

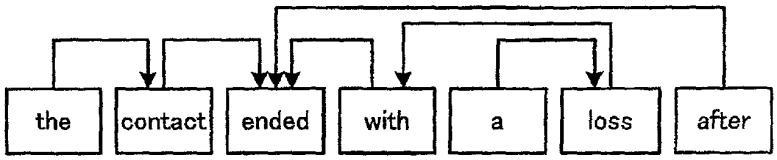
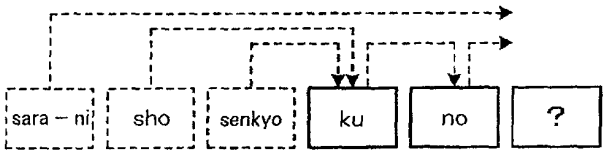


Fig. 7

tri – gram model

(a)



(b) Prediction of the next word following two immediately preceding words

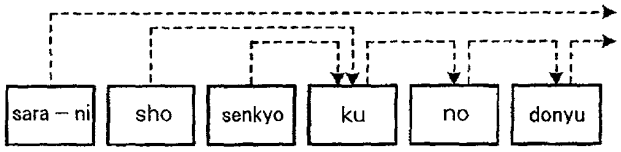
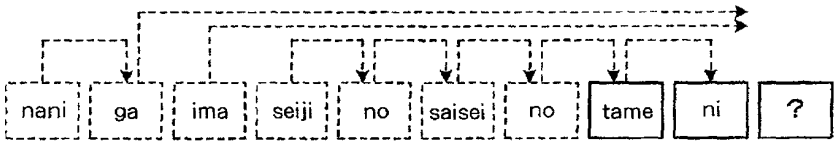


Fig. 8

tri – gram model

(a)



(b) Prediction of the next word following two immediately preceding words

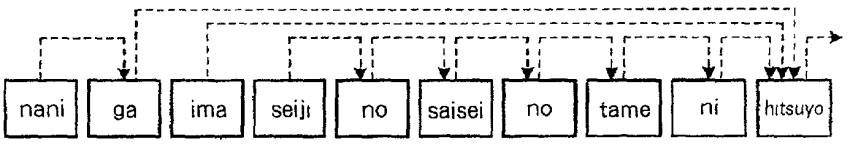
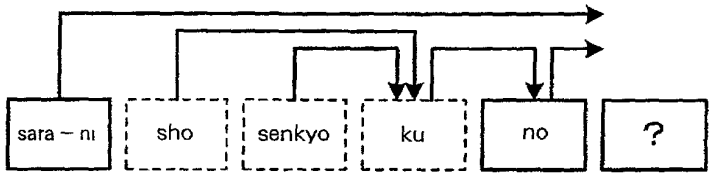


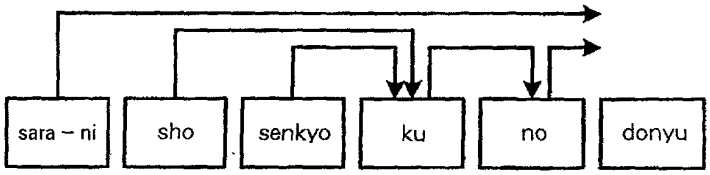
Fig. 9

Chelba & Jelinek method

(a)



(b) Prediction of the next word following two immediately preceding head word



(c) Prediction of the next structure

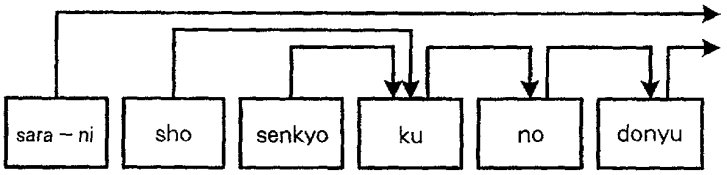
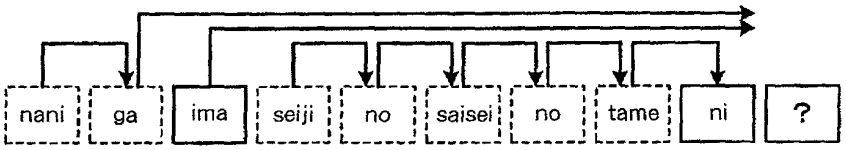


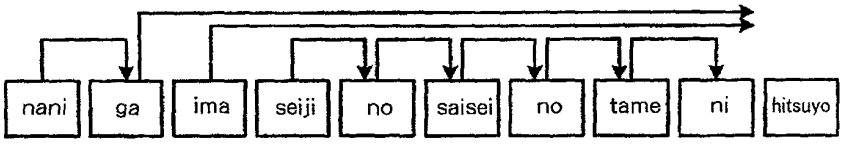
Fig. 10

Chelba & Jelinek method

(a)



(b) Prediction of the next word following two immediately preceding head word



(c) Prediction of the next structure

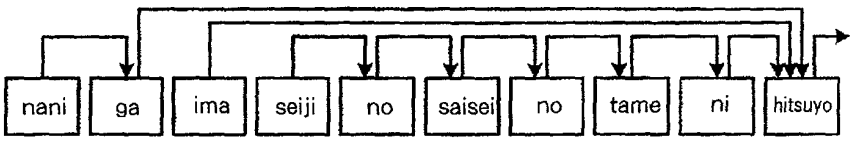


Fig. 11